IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Gurtej S. Sandhu

Serial No.:

Filed: November 9, 2001

For: A METHOD TO FORM ETCH AND/OR

CMP STOP LAYERS

Commissioner for Patents

Washington, D.C. 20231

§ Group Art Unit:

Examiner:

Atty. Docket: 98-1191.01

Paper No.

8

INFORMATION DISCLOSURE STATEMENT

"EXPRESS MAIL" MAILING LABEL NO. EV 009987538 US DATE OF DEPOSIT ______

DATE OF DEPOSIT 119/0/
1 HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS"

MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 C.F.R. § 1/10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE COMMISSIONER FOR PATENTS,

Signature

WASHINGTON, D.C. 20231:

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant respectfully requests that this Information Disclosure Statement be entered and that the references listed on the attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed references are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R. § 1.97(b), this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possible material information as defined in 37 C.F.R. § 1.56(a) exists.

The following references are submitted for the Examiner's review:

U.S. Patents

U.S. Patent No.	Issue Date	Inventor
5,985,770	11/16/99	Sandhu et al.
5,880,007	03/09/99	Varian et al.
5,872,058	02/16/99	Van Cleemput et al.
5,872,052	02/16/99	Iyer
5,858,869	01/12/99	Chen et al.
5,814,564	09/29/98	Yao et al.
5,804,506	09/08/98	Haller et al.
5,641,545	06/24/97	Sandhu
5,633,211	05/27/97	Imai et al.



5,485,035	01/16/96	Lin et al.
5,448,097	09/05/95	Mizushima et al.
5,302,233	04/12/94	Kim et al.
4,474,831	10/02/84	Downey
4,016,017	04/05/77	Aboaf et al.
İ		

Foreign Patents

EP 0875 930 A2	11/04/98	Lig et al.	Europe
EP 0875 929 A2	11/04/98	Lig et al.	Europe

Other References

Sabine Penka, et al., Integration Aspects of Flowfill and Spin-on-Glass Process for Sub-0.35µm Interconnects, PROCEEDINGS OF THE IEEE 1998 INTERNATIONAL INTERCONNECT TECHNOLOGY CONFERENCE, at 271-273 (1998).

- U. Höckele, et al., Flowfill-Process as a New Concept for Inter-Metal-Dielectrics, MATERIALS SCIENCE FORUM, at 235-238 (1998).
- K. Beekmann, et al., Sub-micron Gap Fill and In-Situ Planarisation using Flowfill™ Technology, CONFERENCE PROCEEDINGS ULSI XI, MATERIALS RESEARCH SOCIETY, at 137-143 (1996).
- A. Hass Bar-Ilan et al., A comparative study of sub-micron gap filling and planarization techniques, PROCEEDINGS OF THE SPIE THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, at 277-288 (1995).

Wolf et al., Silicon Processing for the VLSI Era vol. 1: Process Technology, 1986, Lattice Press, California, pp. 190

As this information is being submitted within three months of the date of filing of the application, Applicant understands that no fee or certification is required for the submission and consideration of this information at this time.

If there are any matters which may be resolved or clarified through telephone interview, the Examiner is respectfully requested to contact Applicant's undersigned attorney at the number indicated.

A Form PTO-1449 is enclosed herewith.

Respectfully submitted,

Date: 11:17

Charles Brantley Reg. No. 38,086 Micron Technology, Inc. 8000 S. Federal Way Boise, ID 83706-9632

(208) 368-4557

ATTORNEY FOR APPLICANT

Charles Browtlew

FORM: PTO-1449 (REV: 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty Docket No: 98-1191.01	Serial No:	S.
INFORMATION DI	SCLOSURE STATEMENT BY APPLICANT	Applicant: Gurtej S. Sandhu		
(37 CFR 1.98(b))	(use several sheets if necessary)	Filing Date: November 9, 2001	Group:	22
				8

U.S. PATENT DOCUMENTS

Examiner		Document				
Initial		Number	Date	Name	Class	Subclass
	AA	5,985,770	11/16/99	Sandhu et al.	438	787
	AB	5,880,007	03/09/99	Varian et al.	438	427
	AC	5,872,058	02/16/99	Van Cleemput et al.	438	692
	AD	5,872,052	02/16/99	Iyer	438	622
	AE	5,858,869	01/12/99	Chen et al.	438	597
	AF	5,814,564	09/29/98	Yao et al.	438	723
	AG	5,804,506	09/08/98	Haller et al.	438	649
	AH	5,641,545	06/24/97	Sandhu	427	573
	AI	5,633,211	05/27/97	Imai et al.	438	760
	AJ	5 ,485,035	01/16/96	Lin et al.	257	637
	AK	5,448,097	09/05/95	Mizushima et al.	257	435

FOREIGN PATENT DOCUMENTS

Examiner	Document					Trans	lation
Initial	Number	Date	Country	Class	Subclass	Yes	No
AL	EP 0 875 930 A2	11/04/98	Europe	H01L 21	768		
AM	EP 0 875 929 A2	11/04/98	Europe	H01L 21	768		
AN							H
AO						1 1	
AP							干
AQ				····	<u> </u>		一一

Initial	·	OTHER ART (including author, title, date, pertinent pages, etc.)
	AR	Sabine Penka, et al., Integration Aspects of Flowfill and Spin-on-Glass Process for Sub-0.35 µm Interconnects, PROCEEDINGS OF THE IEEE 1998 INTERNATIONAL INTERCONNECT TECHNOLOGY CONFERENCE, at 271-273 (1998).
	AS	U. Höckele, et al., Flowfill-Process as a New Concept for Inter-Metal-Dielectrics, MATERIALS SCIENCE FORUM, at 235-238 (1998).
	AT	K. Beekmann, et al., Sub-micron Gap Fill and In-Situ Planarisation using Flowfill TM Technology, CONFERENCE PROCEEDINGS ULSI XI, MATERIALS RESEARCH SOCIETY, at 137-143 (1996).

Examiner:	Date Considered:

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

								Sheet: 2 of
FORM: P				IENT OF COMMERCE TRADEMARK OFFICE	Atty Docker	t No: 1 91.01	Serial No:	
(KEV. 7-80)			Applicant:					
INFO	RMATIO	ON DISCLOSU	IRE STATEN	MENT BY APPLICANT	Gurtej S. S	andhu		
					Filing Date:		Group:	
(37 CFR 1	.98(b))		(use several	sheets if necessary)	Concurren	tly Herewith	ı	
				U.S. PATENT DOCUME	ENTS			
Examine	r	Document						
Initial		Number	Date	Name		Class	Subclass	,
	AA	5,302,233	04/12/94	Kim et al.		156	636	
 _	AB	4,474,831	10/02/84	Downey		438	800	<u></u>
	AC	4,016,017	04/05/77	Aboaf et al.		438	441	
	AD							
	AE							
	AF						<u></u>	
	AG		<u> </u>					
	AH							
	AI							ļ
	AJ							
	AK						_	
Examine Initial	r AL	Document Number	Date	Country		Class	Subclass	Translation Yes N
	AM						+	
	AN							
	AO							
	AP	 	- 			7.0		
	AQ					· ····	1 "	
I Initial			OT	THER ART (including author	or, title, date, pe	rtinent page	s, etc.)	
		A	. Hass Bar-Ila	n, et al., A Comparative Stud	ly of Sub-micron	Gap Fillin	g and Planariz	ation
	AR		echniques, PR	OCEEDINGS OF THE SPIE	E - THE INTER	NATIONA	L SOCIETY F	OR OPTIC
		E	NGINEERIN(G. at 277-288 (1995).				
		V	olf et al., Sili	con Processing for the VLSI	Era vol. 1: Proc	ess Technol	logy, 1986, Lat	tice Press,
	AS		alifornia, pp.					
. Par-	AT							
Examiner				Date Con	osidered:	<u> </u>		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.